

Literature Cited

Designation of Critical Habitat for Roswell Springsnail, Koster's Springsnail, Noel's Amphipod, and Pecos Assiminea

Docket No. FWS-R2-ES-2009-0014, May 2011

- Bailey, J.K., J.A. Schweitzer, and T.G. Whitham. 2001. Salt cedar negatively affects biodiversity of aquatic macroinvertebrates. *Wetlands* 21:442-447.
- Balleau, W.P., R.A. Woford, D.M. Romero, and S.E. Silver. 1999. Source-water protection zones for Bitter Lake National Wildlife Refuge. Prepared for U.S. Fish and Wildlife Service, Albuquerque, NM. 42 pp.
- Berg, D.J. 2010. Status of the Rio Hondo population of Noel's amphipod (*Gammarus desperatus*). Report to U.S. Fish and Wildlife Service, Albuquerque, NM. 3 pp.
- Boghici, R. 1997. Hydrogeological investigations at Diamond Y Springs and surrounding area, Pecos County, Texas. M.A. Thesis. University of Texas at Austin. 120 pp.
- Boylen, C.W. and T.D. Brock. 1973. Bacterial decomposition properties in Lake Wingra sediments during winter. *Limnology and Oceanography* 18:628-634.
- Bureau of Land Management. 2002. Habitat protection zone environmental assessment. EA-NM-060-00-030. Roswell, Field Office, Roswell, NM.
- Burton, G.A. Jr. and R.E. Pitt. 2002. Ecosystem component characterization. Chapter 6 in *Stormwater Effects Handbook: A Toolbox for Watershed Managers, Scientists, and Engineers*. Lewis Publishers, CRC Press, Boca Raton, FL.
- Brune, G. 1981. Springs of Texas. Branch-Smith, Inc. Fort Worth, Texas.
- Christensen, J.H., B. Hewitson, A. Busuioc, A. Chen, X. Gao, I. Held, R. Jones, R.K. Kolli, W.-T. Kwon, R. Laprise, V. Magaña Rueda, L. Mearns, C.G. Menéndez, J. Räisänen, A. Rinke, A. Sarr and P. Whetton. 2007. Regional Climate Projections. In: *Climate Change 2007: The Physical Science Basis. Contribution of Working Group I to the Fourth Assessment Report of the Intergovernmental Panel on Climate Change* [Solomon, S., D. Qin, M. Manning, Z. Chen, M. Marquis, K.B. Averyt, M. Tignor and H.L. Miller (eds.)]. Cambridge University Press, Cambridge, United Kingdom and New York, NY, USA.
- Cole, G.A. 1981. *Gammarus desperatus*, a new species from New Mexico (Crustacea: amphipoda). *Hydrobiologia* 76:27-32.
- Cole, G.A. 1985. Analysis of the *Gammarus-pecos* complex (Crustacea: amphipoda) in Texas and New Mexico. USA. *Journal of the Arizona-Nevada Academy of Science* 20:93-104.
- Cole, G.A. 1988. A report on Noel's amphipod (*Gammarus desperatus*). Report submitted to the Endangered Species Program, New Mexico Department of Game and Fish under Professional Services Contract 519-77-02, Santa Fe, New Mexico.

- Constantz, J. 1998. Interaction between stream temperature, streamflow, and groundwater exchanges in alpine streams. *Water Resources Research* 34:1609-1615.
- Covich, A.P. and J.H. Thorp. 1991. Crustacea: Introduction and Peracarida. pp. 665 – 682 *in* Thorp, J.H. and A.P. Covich. 1991. Ecology and classification of North American freshwater invertebrates. Academic Press, San Diego, CA.
- DiTomaso, J.M. 1998. Impact, biology, and ecology of saltcedar (*Tamarix* spp.) in the southwestern United States. *Weed Technology*. 12:326-336.
- Echelle, A.A. 2001. Monitoring effects of a renovation project on endangered fish and invertebrates in Diamond Y Draw. Final Report, Endangered Species Program, Texas Parks and Wildlife Department, Austin, Texas. Project No. E-1-13; Code WER38. 66 pp.
- Go-Tech. 2010. Active oil and gas wells in the 12-township area encompassing the Bitter Lake National Wildlife Refuge source-water capture zone.
<http://mapserve.nmt.edu/Website/NMOG/viewer.htm> Accessed 4/29/2010.
- Hershler, R. 1989. Springsnails (Gastropoda: Hydrobiidae) of Owens and Amargosa River (exclusive of Ash Meadows) drainages, Death Valley system, California-Nevada. *Proceedings of the Biological Society of Washington*. 102:176-248.
- Hershler, R. 1994. A review of the North American freshwater snail genus *Pyrgulopsis* (Hydrobiidae). *Smithsonian contributions to zoology* no. 554. Smithsonian Institution Press, Washington D.C. 115 pp.
- Hershler, R. and W.L. Pratt. 1990. A new *Pyrgulopsis* (Gastropoda: Hydrobiidae) from southeastern California, with a model for historical development of the Death Valley hydrographic system. *Proceedings of the Biological Society of Washington*. 103:279-299.
- Holsinger, J.R. 1976. The freshwater amphipod crustaceans (Gammaridae) of North America. U.S. Environmental Protection Agency. Report: Biota of Freshwater Ecosystems, Water Pollution Control Research Series 18050 ELD04/72.
- Intergovernmental Panel on Climate Change. 2007. Fourth Assessment Report Climate Change 2007: Synthesis Report Summary for Policymakers. Released on 17 November 2007.
Available at: http://www.ipcc.ch/pdf/assessment-report/ar4/syr/ar4_syr_spm.pdf
- Jones, M. A. and W. P. Balleau. 1996. Interrelation of groundwater and surface water at Bitter Lake National Wildlife Refuge. Balleau Groundwater, Inc. Report to U. S. Department of Justice. 16 pp.
- Lang, B.K. 2002. Status of aquatic mollusks of New Mexico. New Mexico Department of Game and Fish, Annual Performance Report (E-20, 5-9) submitted to Division of Federal Aid, U.S. Fish and Wildlife Service, Albuquerque, New Mexico.
- Lang, B.L. 2010. Review Comments: Federal Register. 2010. 75 (119): 35375-35397. USFWS Proposed Rule: Designation of Critical Habitat for Roswell Springsnail, Koster's springsnail,

- Noel's Amphipod, and Pecos Assiminea. Comments submitted to U.S. Fish and Wildlife Service, Albuquerque, NM. 3 pp.
- Lodge, D.M., C.A. Taylor, D.M. Holdich, and J. Skurdal. 2000. Nonindigenous crayfishes threaten North American freshwater diversity: lessons from Europe. *Fisheries* 25:7-19.
- Lusk, J.L. 2010. Dissolved oxygen and temperature measurements and other observations of the Rio Hondo and spring systems. U.S. Fish and Wildlife Service Memorandum. Albuquerque, NM. 9 pp.
- Lydeard, C., R.H. Cowie, W.F. Ponder, A.E. Bogan, P. Bouchet, S.A. Clark, K.S. Cummings, T.J. Frest, O. Gargominy, D.G. Herbert, R. Hershler, K.E. Perez, B. Roth, M. Seddon, E.E. Strong, and F.G. Thompson. 2004. The global decline of nonmarine mollusks. *BioScience*. 54:321-330.
- MacNeil, C., J.T.A. Dick, and R.W. Elwood. 1997. The trophic ecology of freshwater *Gammarus* spp. (Crustacea: Amphipoda): problems and perspectives concerning the functional feeding group concept. *Biological Reviews* 72:349-364.
- MacNeil, C., J.T.A. Dick, and R.W. Elwood. 2000. Differential physico-chemical tolerances of amphipod species revealed by field transplantations. *Oecologia* 124:1-7.
- McCord, J.T., J.A. Clark, and J.L. Smith. 2007. Review of groundwater hydrology associated with spring flows at Bitter Lake National Wildlife Refuge, New Mexico. Report to the New Mexico Interstate Stream Commission. 27 pp.
- Myers, M.J. and V.H. Resh. 1999. Spring-formed wetlands of the arid west. Pp. 811-828 in D.P. Batzer, R.B. Rader, and S.A. Wissinger, editors. *Invertebrates in freshwater wetlands of North America: ecology and management*. John Wiley & Sons, New York.
- NMDGF (New Mexico Department of Game and Fish). 1999. Status of aquatic mollusks of New Mexico. Project E-20-7.
- NMDGF. 2005. Recovery and conservation plan for four invertebrates: Noel's amphipod (*Gammarus desperatus*), Pecos assiminea (*Assiminea pecos*), Koster's springsnail (*Juturnia kosteri*), and Roswell springsnail (*Pyrgulopsis roswellensis*). Prepared by Blue Earth Ecological Consultants Inc., Santa Fe, NM.
- NMDGF. 2006a. Threatened and endangered species of New Mexico: 2006 biennial review. Conservation Services Division, Santa Fe, NM. 122 pp.
- NMDGF. 2006b. Macroinvertebrates of Bitter Lake National Wildlife Refuge. Project E-56-4 submitted to the U.S. Fish and Wildlife Service, Albuquerque, NM. 16 pp.
- NMDGF. 2007. Macroinvertebrates of Bitter Lake National Wildlife Refuge. Project E-56-5 submitted to the U.S. Fish and Wildlife Service, Albuquerque, NM. 20 pp.

- NMDGF. 2008. Macroinvertebrates of Bitter Lake National Wildlife Refuge. Project E-56-6 submitted to the U.S. Fish and Wildlife Service, Albuquerque, NM. 28 pp.
- NMED (New Mexico Environment Department). 2006a. Water quality survey summary for the lower Pecos River watershed (from Sumner Dam to the Texas state line). 2003. NMED Surface Water Quality Bureau, Santa Fe, NM.
- NMED. 2006b. Rio Hondo watershed TMDLs in Lincoln County - From the Pecos River to headwaters. NMED Surface Water Quality Bureau, Santa Fe, NM.
- Pennak, R.W. 1989. Fresh-water invertebrates of the United States: Protozoa to Mollusca, 3rd ed. John Wiley & Sons, Inc., New York, NY.
- Rader, R.B., M.C. Belk, and M.J. Keleher. 2003. The introduction of an invasive snail (*Melanoides tuberculata*) to spring ecosystems of the Bonneville Basin, Utah. *Journal of Freshwater Ecology*. 18:647-657.
- Schuster, S.K. 1997. Hydrogeology and local recharge analysis in the Toyah Basin Aquifer. M.S. Thesis, Geological Sciences, Univ. of Texas at Austin. 130 pp.
- Scudday, J.F. 1977. Some recent changes in the herpetofauna of the northern Chihuahuan Desert. Pp. 513-522 in *Transactions of the Symposium on the Biological Resources of the Chihuahuan Desert Region*. R.H. Wauer and D.H. Riskin, eds. U.S. National Park Service, Transactions and Procedures Series, No. 3.
- Selbig, W.R. 2009. Concentrations of polycyclic aromatic hydrocarbons (PAHs) in urban stormwater, Madison, Wisconsin, 2005–08. U.S. Geological Survey Open-File Report 2009–1077. 46 pp. (Available at <http://pubs.usgs.gov/of/2009/1077/>)
- Service (U.S. Fish and Wildlife Service). 1998. Final Bitter Lake National Wildlife Refuge Comprehensive Conservation Plan. Albuquerque, NM. 162 pp.
- Service. 2004. Informal consultation for a prescribed fire in Unit 15, Consultation number 2-22-05-I-215. Bitter Lake National Wildlife Refuge, Roswell, New Mexico.
- Service. 2005a. Draft economic analysis of critical habitat designation for the Roswell springsnail, Koster's springsnail, Pecos assimineae, and Noel's amphipod. April 29, 2005 Prepared by Industrial Economics Inc., Boston MA, for the Division of Economics, USDI Fish and Wildlife Service, Arlington, VA.
- Service. 2005b. Emergency consultation for tumbleweed removal (mechanical and fire) from Unit 6 spring-ditch, Consultation number 2-22-05-M-301. Bitter Lake National Wildlife Refuge, Roswell, NM.
- Service. 2010. Draft environmental assessment for Bitter Lake National Wildlife Refuge farming program. Roswell, NM. 55 pp.

- Small, T.A., and G.B. Ozuna. 1993. Ground-water conditions in Pecos County, Texas, 1987. U.S. Geological Survey Water-Resources Investigations Report 92-4190. Austin, TX.
- Smith, D. G. 2001. Pennak's fresh-water invertebrates of the United States: Porifera to Crustacea. John Wiley & Sons, Inc., New York.
- Smith, E.L. 2000. Pre-research survey of municipal NPDES dischargers in the arid and semi-arid west. Dames & Moore, Tucson, AZ.
- Taylor, D. W. 1985. Status survey of aquatic molluscs in Diamond Y Draw, Pecos County, Texas. Unpublished Report, Bitter Lake National Wildlife Refuge, Roswell, NM.
- Taylor, D.W. 1987. Fresh-water mollusks from New Mexico and vicinity. New Mexico Bureau of Mines & Mineral Resource Bulletin 116.
- USACE (U.S. Army Corps of Engineers). 1974. Rio Hondo – Rio Felix, Roswell, New Mexico. USACE Board of Engineers for Rivers and Harbors Feasibility Report for Water Resources Development, Albuquerque, NM.
- USEPA (U.S. Environmental Protection Agency). 2006. NPDES Permit No. NM0020311 fact sheet. USEPA Region 6 Water Quality Protection Division, Dallas, TX.
- USEPA. 2007. Advanced wastewater treatment to achieve low concentration of phosphorus. USEPA Region 10 Office of Water and Watersheds, EPA 910-R-07-002, Seattle, WA.
- USEPA. 2009. Occurrence of contaminants of emerging concern in wastewater from nine publicly owned treatment works. USEPA Office of Water, Washington, DC.
- USGS (U.S. Geological Survey). 2010. USGS 08393610 Rio Hondo near Roswell, NM. http://waterdata.usgs.gov/nwis/dv?referred_module=sw&site_no=08393610 Accessed December 8, 2010.
- Veni, G. 1991. Delineation and preliminary hydrogeologic investigations of the Diamond Y Spring, Pecos County, Texas. Report to the Nature Conservancy of Texas. 110 pp.
- Warrick, G. 2006. *Gammarus* on Farm. Memorandum, May 17, 2006. Bitter Lake National Wildlife Refuge, Roswell, NM. 1 p.
- White, A.F., M.L. Peterson, and R.D. Solbau. 1990. Measurement and interpretation of low levels of dissolved oxygen in ground water. Ground Water 28:584-590.
- Williams, J.E., J.E. Johnson, D.A. Hendrickson, S. Contreras-Balderas, J.D. Williams, M. Navarro-Mendoza, D.E. McAllister, and J.E. Deacon. 1989. Fishes of North America; endangered, threatened, or of special concern: 1989. Fisheries 14:2-20.